

Economic calculation of energy storage power station project





Overview

How are energy storage benefits calculated?

First, energy storage configuration models for each mode are developed, and the actual benefits are calculated from technical, economic, environmental, and social perspectives. Then, the CRITIC method is applied to determine the weights of benefit indicators, and the TOPSIS method is used to rank the overall benefits of each mode.

How much storage capacity should a new energy project have?

For instance, in Guangdong Province, new energy projects must configure energy storage with a capacity of at least 10% of the installed capacity, with a storage duration of 1 h . However, the selection of the appropriate storage capacity and commercial model is closely tied to the actual benefits of renewable energy power plants.

How are the benefits generated by energy storage configuration models evaluated?

In this section, based on the energy storage configuration results mentioned above, the actual benefits generated by these three commercial models are evaluated from four perspectives: technical, economic, environmental, and social. The specific descriptions of the evaluation indicators are as follows.

Are self-built and leased energy storage modes a benefit evaluation method?

This paper proposes a benefit evaluation method for self-built, leased, and shared energy storage modes in renewable energy power plants. First, energy storage configuration models for each mode are developed, and the actual benefits are calculated from technical, economic, environmental, and social perspectives.



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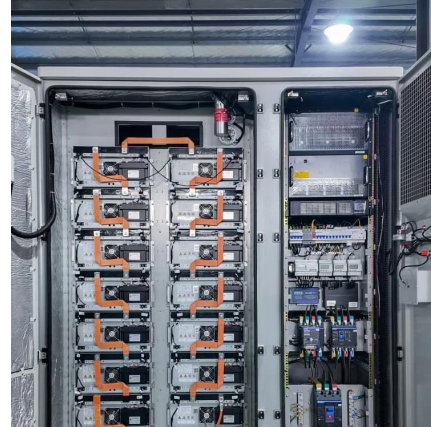
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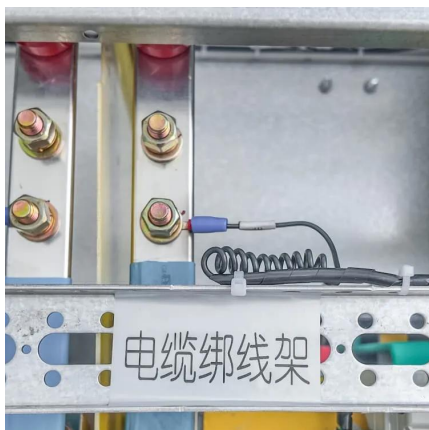


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